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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/004,646	12/03/2001	Jin Udagawa	4641-61503	6774
. 75	90 04/18/2003			
One World Trade Center Suite 1600 121 S.W. Salmon Street			EXAMINER .	
			KALIVODA, CHRISTOPHER M	
Portland, OR 97204			ART UNIT	PAPER NUMBER
		•	2881	
			DATE MAILED: 04/18/2003	DATE MAILED: 04/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	plicant(s)				
· ·						
Office Action Summary	10/004,646	UDAGAWA, JIN				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication and	Christopher M. Kalivoda	he correspondence address				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on	·					
•	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-14 and 16-19</u> is/are allowed.						
6)⊠ Claim(s) <u>20</u> is/are rejected.						
7)⊠ Claim(s) <u>15</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)⊠ The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on <u>03 December 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) mal Patent Application (PTO-152)				

Art Unit: 2881

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

Figure 3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: The text "can be used" after "S2" should be deleted on page 14, lines 2-3. Appropriate correction is required.

Claim Objections

Claim 15 objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 1 describes a

Art Unit: 2881

temperature control device in a microlithography apparatus. Claim 15 describes a microlithography apparatus with a temperature control device as described in claim 1.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 20 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 20 recites the limitation "microlithography apparatus as recited in claim 8" in lines 2 and 3. There is insufficient antecedent basis for this limitation in the claim since claim 8 is a method claim. Appropriate correction is required.

Allowable Subject Matter

The following is a statement of reasons for the indication of allowable subject matter regarding claims 1, 8 and 16. The applicant filed an application (application number 10/004,646) entitled "Devices and Methods for Monitoring Respective Operative Temperatures of Components In A Microlithography Apparatus" on Date. A review of prior art failed to disclose or make obvious a microlithography apparatus comprising temperature sensors, temperature monitoring devices, and controller such that if the

Art Unit: 2881

temperature control commands indicate a temperature anomaly, then action selected from alarm triggering, to stopping exposure, to calibration occurs.

Claims 2-7 would be allowable because they depend upon claim 1 or claims that depend upon claim 1.

Claims 9-14 and 19 would be allowable because they depend upon claim 8 or claims that depend upon claim 8.

Claims 17, 18, and 20 would be allowable because they depend upon claim 18 or claims that depend upon claim 18.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent 5,428,203 to Kusunose describes an electron beam exposure system with temperature monitoring capability. However, the temperature data is associated with a stencil mask only and is used to regulate the magnitude of the output of a laser used to heat the stencil mask as described in the first embodiment.

U.S. Patent 5,83,785 to Coon describes a method to compensate for thermal expansion by using a temperature monitoring capability. In this patent, the temperature

Art Unit: 2881

data is used to develop scaling and backlash coefficients so that scaling and backlash

Page 5

can be accounted for prior to exposure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christopher M. Kalivoda whose telephone number is

(703)-305-7443. The examiner can normally be reached on Monday - Friday (8:30 -

5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John R. Lee can be reached on (703)-308-4116. The fax phone numbers

for the organization where this application or proceeding is assigned are (703)-872-

9318 for regular communications and (703)-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703)-

308-0956.

cmk

April 15, 2003

MAIAN R. LEE

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800